CIVIL-TECH CONSULTANTS AND ENGINEERS

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

Job No.: CTCE/BBMP/W.No.08/N/CEMENT/2012-13 Date: 03.11.2012

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore
AGENCY	:	**Mr. Narasimhaiah,** Contractor, Bangalore
NAME OF THE WORK	:	Park Improvements to drains and footpath around Devinagar near RMV Apartment in Kodigehalli in Ward No. 8, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/KH/WO/13/05/2012-13 Dated: 27.10.2012
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	178 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	499 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Information is furnished by the Agency

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

AE Gr-II
Take n/c

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
Bangalore - 560 079

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 9342839190, Website : www.civiltechconsultsnts.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

Job No.: CTCE/BBMP/W.No.08/N/SAND/2012-13

03.11.2012

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore

Agency : **Mr. Narasimhaiah,** Contractor, Bangalore

Name of Work : Park Improvements to drains and footpath around Devinagar near RMV Apartment in Kodigehalli in Ward No. 8, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/WO/13/05/2012-13 Dated: 27.10.2012

Date of Testing : 03.11.2012

Material : Sand

Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	54	2.70	2.70	97.3	90-100
2.36	234	11.70	14.40	85.6	75-100
1.18	276	13.80	28.20	71.8	55-90
600 Micron	624	31.20	59.40	40.6	35-59
300 Micron	517	25.85	85.25	14.8	8-30
150 Micron	142	7.10	92.35	7.7	0-10

Information is furnished by the Agency

Civil-Tech Consultants & Engineers Bangalore

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
Bangalore - 560 079

AE (N-S)

Take it

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 9342839190, Website : www.civiltechconsultsnts.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

Job No.: CTCE/BBMP/W.No.08/N/AGG/2012-13

03.11.2012

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore

Agency : **Mr. Narasimhaiah,** Contractor, Bangalore

Name of Work : Park Improvements to drains and footpath around Devinagar near RMV Apartment in Kodigehalli in Ward No. 8, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/WO/13/05/2012-13 Dated: 27.10.2012

Date of Testing : 03.11.2012

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Tabel - 1

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	165	3.30	3.30	96.70	95-100
10	2989	59.78	63.08	36.92	25-55
4.75	1498	29.96	93.04	6.96	0-10

Information is furnished by the Agency

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
Bangalore - 560 079

AE(H-8)
Take 4/4
1-2-13

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL-TECH CONSULTANTS AND ENGINEERS

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

Job No.: CTCE/BBMP/W.No.08/N/CUBE/2012-13

15.12.2012

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore
Agency	: **Mr. Narasimhaiah,** Contractor, Bangalore.
Name of the work	: Park Improvements to drains and footpath around Devinagar near RMV Apartment in Kodigehalli in Ward No. 8, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/KH/WO/13/05/2012-13 Dated: 27.10.2012
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.11.2012	15.12.2012	8.124	359.6	15.98
2	17.11.2012	15.12.2012	8.216	371.4	16.51
3	17.11.2012	15.12.2012	8.327	389.2	17.30

Information is furnished by the Agency

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

AE(W-8)
Take N/A

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, BBMP,
Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapatni Nagara,
Basaveshwaranagar,
Bangalore - 560 079

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 9342839190, Website : www.civiltechconsultsnts.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

Job No.: CTCE/BBMP/W.No.08/N/CC Blocks/2012-13 16.11.2012

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Narasimhaiah,** Contractor, Bangalore.

Name of the Work : Park Improvements to drains and footpath around Devinagar near RMV Apartment in Kodigehalli in Ward No. 8, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/KH/WO/13/05/2012-13 Dated: 27.10.2012

Size of Block : 400 x 100 x 200 mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum required Compressive Strength
			kN	N/mm^2	N/mm^2
1	14.11.2012	16.11.2012	264.6	3.31	
2	14.11.2012	16.11.2012	268.9	3.36	3.2
3	14.11.2012	16.11.2012	262.5	3.28	

Information is furnished by the Agency.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days rom the date of testing.

AE(H-8)
Take n/a
2-2-2

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka, BBMP
Bangalore

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara,
Basaveshwaranagar,
Bangalore - 560 079

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 9342839190, Website : www.civiltechconsultsnts.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

Job No.: CTCE/BBMP/W.No.08/N/Kerb Stone/2012-13

19.11.2012

CC KERB STONE (CORE) TEST REPORT

Name of Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Name of Agency	:	**Mr. Narasimhaiah,** Contractor, Bangalore.
Name of work	:	Park Improvements to drains and footpath around Devinagar near RMV Apartment in Kodigehalli in Ward No. 8, Kodigehalli Sub Division, BBMP, Bangalore.
Referece	:	AEE/KH/WO/13/05/2012-13 Dated: 27.10.2012
No.of Sample Tested	:	03
Date of Testing	:	19.11.2012
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.397	2559.37	1.58	0.960	25.2	12.82	13.85	13.30	16.62
2	50.00	82.00	0.409	2540.27	1.64	0.960	25.4	12.95	13.98	13.42	16.78
3	50.00	81.00	0.405	2546.48	1.62	0.960	25.7	13.07	14.12	13.55	16.94

Information is furnished by the Agency

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthi Ganapathi Nagara
Basaveshwaranagar,
Bangalore - 560 079

AE (K-N)
Take N/A
2-12-12

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Z.O. B.B.M.P.
Bar., 1016.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 9342839190, Website : www.civiltechconsultsnts.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/NN/CEMENT/2014-15 Date: 15.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. N. Narasimhaiah,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to drains and footpath around Devinagara near RMV Apartment in Kodigehalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-TND/1305/WO/06/2012-13 Dated: 05.06.2012
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/NN/SAND/2014-15 : 15.07.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Narasimhaiah,** Contractor, Bangalore.

Name of Work : Improvements to drains and footpath around Devinagara near RMV Apartment in Kodigehalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/1305/WO/06/2012-13 Dated: 05.06.2012

Date of Testing : 15.07.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	65	6.50	6.50	93.5	90-100
2.36	163	16.30	22.80	77.2	75-100
1.18	180	18.00	40.80	59.2	55-90
600 Micron	200	20.00	60.80	39.2	35-59
300 Micron	199	19.90	80.70	19.3	8-30
150 Micron	152	15.20	95.90	4.1	0-10

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ
BSCIC
ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/NN/CC Blocks/2014-15 15.07.2014

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Narasimhaiah,** Contractor, Bangalore.

Name of work : Improvements to drains and footpath around Devinagara near RMV Apartment in Kodigehalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/1305/WO/06/2012-13 Dated: 05.06.2012

Size of Block : 400 mm x 100 mm x 200 mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum Compressive Strength of Individual Units
			kN	N/mm^2	N/mm^2
1	13.07.2014	15.07.2014	128.9	3.22	3.2
2	13.07.2014	15.07.2014	130.2	3.26	
3	13.07.2014	15.07.2014	131.2	3.28	

Note:

1.The report shall not be reproduced, except in full, without the written approval of the laboratory.
2.The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ
BSCIC
ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/NN/CC Blocks/2014-15

15.07.2014

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. N. Narasimhaiah,** Contractor, Bangalore.

Name of work : Improvements to drains and footpath around Devinagara near RMV Apartment in Kodigehalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/1305/WO/06/2012-13 Dated: 05.06.2012

Size of Block : 400 mm x 200 mm x 200 mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 03

Sl.No.	Date of Sampling	Date of testing	Failure load (KN)	Compressive strength	Minimum Compressive Strength of Individual Units
			kN	N/mm^2	N/mm^2
1	13.07.2014	15.07.2014	258.3	3.23	3.2
2	13.07.2014	15.07.2014	261.3	3.27	
3	13.07.2014	15.07.2014	262.1	3.28	

Note:

1.The report shall not be reproduced, except in full, without the written approval of the laboratory.
2.The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/NN/Kerb Stone/2014-15

15.07.2014

TEST REPORT ON CONCRETE CORE (KERB STONE)

Name of Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Name of Agency : **Mr. N. Narasimhaiah,** Contractor, Bangalore.

Name of work : Improvements to drains and footpath around Devinagara near RMV Apartment in Kodigehalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/1305/WO/06/2012-13 Dated: 05.06.2012

Techinical Reference : IS:516-1959 (Reaffirmed 2008), SP-24:1983.

Date of Testing : 15.07.2014

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.381	2520.02	1.54	0.955	25.00	12.73	13.75	13.13	16.42
2	50.00	78.00	0.390	2546.48	1.56	0.960	25.30	12.89	13.92	13.36	16.70
3	50.00	79.00	0.398	2565.82	1.58	0.965	26.00	13.24	14.30	13.80	17.25

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/NN/CUBE/2014-15

15.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. N. Narasimhaiah,** Contractor, Bangalore.
Name of the work	: Improvements to drains and footpath around Devinagara near RMV Apartment in Kodigehalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: EE/MLP/W.O/JE/PR/24/2013-14 Dated: 14.05.2013
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2014	15.08.2014	8.139	355.6	15.80
2	18.07.2014	15.08.2014	8.256	363.3	16.15
3	18.07.2014	15.08.2014	8.332	372.3	16.55

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/NN/CUBE/2014-15

15.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. N. Narasimhaiah,** Contractor, Bangalore.
Name of the work	: Improvements to drains and footpath around Devinagara near RMV Apartment in Kodigehalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: EE/MLP/W.O/JE/PR/24/2013-14 Dated: 14.05.2013
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2014	15.08.2014	8.190	356.3	15.84
2	18.07.2014	15.08.2014	8.280	369.5	16.42
3	18.07.2014	15.08.2014	8.310	379.3	16.86

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.08/NN/CUBE/2014-15

15.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. N. Narasimhaiah,** Contractor, Bangalore.
Name of the work	: Improvements to drains and footpath around Devinagara near RMV Apartment in Kodigehalli in Ward No. 08, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: EE/MLP/W.O/JE/PR/24/2013-14 Dated: 14.05.2013
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2014	15.08.2014	8.215	358.6	15.94
2	18.07.2014	15.08.2014	8.398	372.3	16.55
3	18.07.2014	15.08.2014	8.463	389.6	17.32

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.